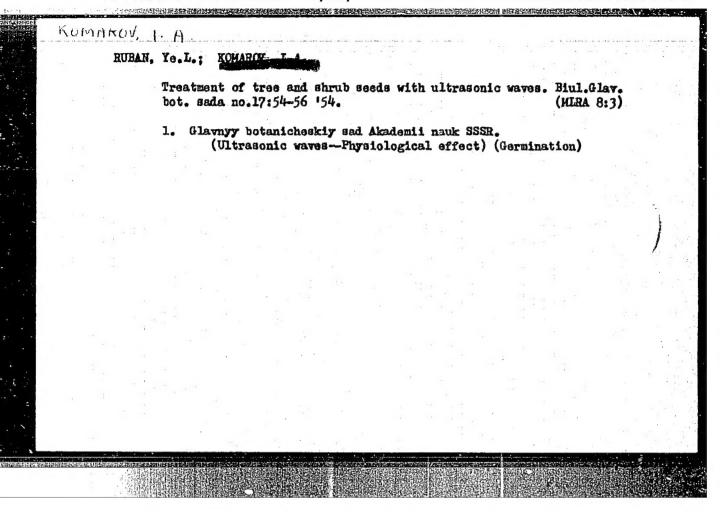


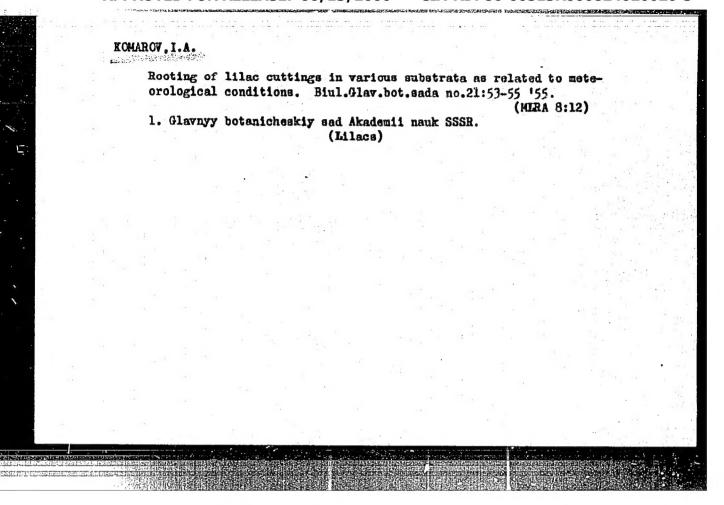
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KOMAROV, I. A.

"The Biological Basis for the Time of Grafting of Cultivated Varieties of Lilacs." Cand Biol Sci, Inst of Forestry, Acad Sci USSR, Moscow, 1955. (KL, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).



KOMAROV I A

Period for rooting cuttings of the lilac and certain other shrubs. Biul.Glav.bot sada no.22:30-38 '55. (MLRA 9:5)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR. (Plant cuttings) (Shrubs)

Effect of certain factors on the rooting capacity of summer cuttings of cultivated lilac. Biul. Olav.bot.sada no.26:38-44 '56. (MLRA 10:2) 1. Glavayy botanicheskiy sad Akademii nauk SSSR. (Lilacs) (Plant cuttings)

Anatomical structure of the shoot as a rooting capacity indicator for lilac cuttings. Biul, Clav. bot. sada no. 27:40-45 '57.

(HIRA 10:5)

1.Glavnyy botanicheskiy sad Akademii nauk SSSR.

(Lilica) (Plant cuttings) (Botany-Anatomy)

26-58-7-32/48

. AUTHOR:

Komarov, I.A., Candidate of Biological Sciences

TITLE:

Open-Ground Rhododendrons and Azaleas (Gruntovyye rododendrony

i azalii)

THE RESERVE OF THE PROPERTY OF

PERIODICAL:

Priroda, 1958, Nr 7, pp 111-113 (USSR)

ABSTRACT:

The Main Botanical Garden of the AN USSR planted several rhododendron types in open ground in 1942, where they have stayed since then, grew, flowered profusely and bore ripe seeds. In winter, the plants are easily protected from cold winds by simple frames of wood and tar paper. There are also many suitable azalea types which yield excellent results when their cultivation is started in green houses. The Rh. Cunninghami, Cunningham's White, Rh. macrophyllum, Rh. kamtschaticum, Rh. Chamaecistus, Rh. catawbiense and Azalea pontica and Az. sinensis types are mentioned. In clayey soils, only Rhodorastrum species can be cultivated. Detailed cultivation instructions are given for rhododendrons, hints for azaleas.

There are 2 photos.

Card 1/2

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824020020-3 Open-Ground Rhododendrons and Azaleas 26-58-7-32/48 ASSOCIATION: Glavnyy botanicheskiy sad AN SSSR - Moskva (The Main Botanic-al Garden of the AN USSR - Moscow) 1. Botany--USSR Card 2/2

LAPIN, P.I.; KOMAHOV, I.A.; LEONOV, A.G.; MAZURKEVICH, F.S.; MAKAROV, S.N.; MARTEM'YANOV, P.B.; KOSUNOVA, D.I. [deceased]; SAKHAROV, I.M.; SIDNEVA, S.V.; TSITSIN, N.V., akademik, otv.red.; MAKAROV, S.N., red.izd-va; GUSEVA, A.P., tekhn.red.

[Trees and shrubs; results obtained in the Main Botanical Garden of the Academy of Sciences of the U.S.S.R.] Derevia i kustarniki; kratkie itogi introduktsii v Glavnom botanicheskom sadu Akademii nauk SSSR. Moskva, Izd-vo Akad.nauk SSSR, 1959. 190 p. (MIRA 12:10)

1. Hoscow. Glavnyy botanicheskiy sad. (Trees) (Shrubs)

KOGAN, B.M. (Moskva, ul. Kachalova, d. 10, kv. 5); KCMAROV, I.A.

Electrocardiographic changes in pulmonary infarcts developing after mitral commissurotomy. Grudn. khir. 4 no.5:52-53 S-0'62 (MIRA 17:3)

1. Iz laboratorii funktsional'noy diagnostiki (zav. - kand. med. nauk G.G. Gel'shteyn) i otdeleniya priobretennykh zabo-levaniy serdtsa (zav. - prof. S.A. Kolesnikov) Instituta grudnoy khirurgii AMN SSSR (dir. - prof. S.A. Kolesnikov, nauchnyy rukovoditel* - akademik A.N. Bakulev).

SHISHKIN, V.P., doktor med.nauk; KOMAROV, I.A., kand.med.nauk

THE STATE OF THE S

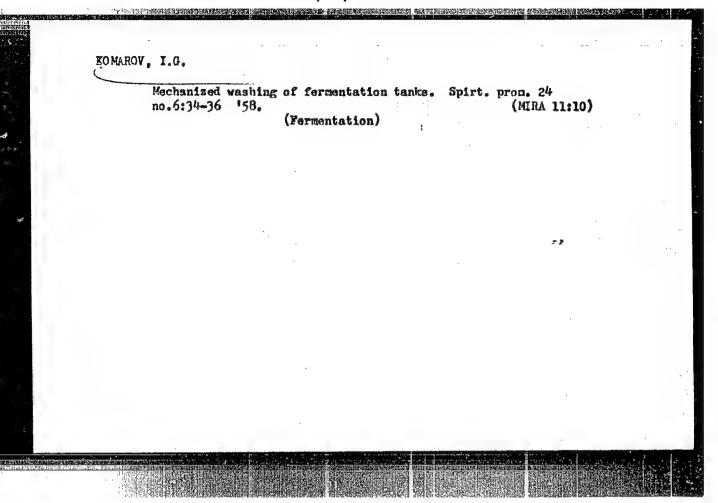
Results of the treatment of varicose veins of the lower extremities by Teprover and Nesterov's new method. Trudy KGMI no.10:330-334 (MIRA 18:1)

1. Iz kafedry obshchey khirurgii (zav. kafedroy - prof. V.P. Shishkin) Kalininskogo gosudarstvennogo meditsinskogo instituta.

KOMAROV, I.A. kand.med.nauk

Blood coagulability in obliterating endarteritis and atherosclerosis of the lower extremities. Trudy KGMI no.10:352-356 '63. (MIRA 18:1)

1. Iz kafedry obshchey khirurgii (zav. kafedroy-professor V.P. Shishkin) Kalininskogo gosudarstvennogo meditsinskogo instituta.

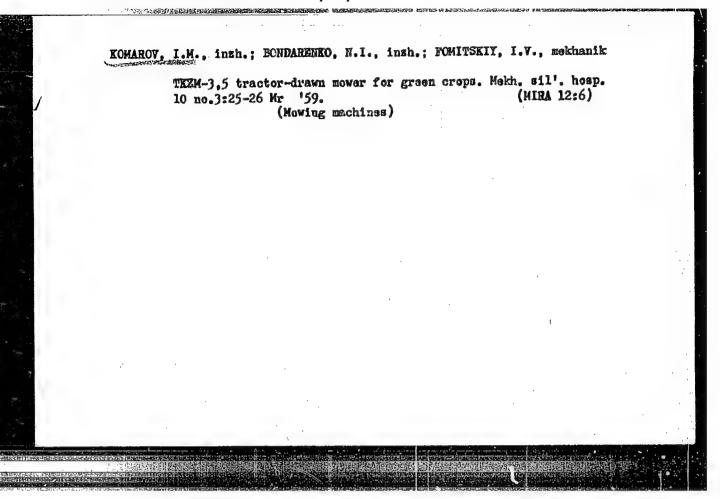


KOMAROV, I. K.

Chair of Microbiology, State Medical Inst., SVERDLOVSK, (-1944-)

"On the serological diagnosis of gas gangrene,"

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 9, 1944.

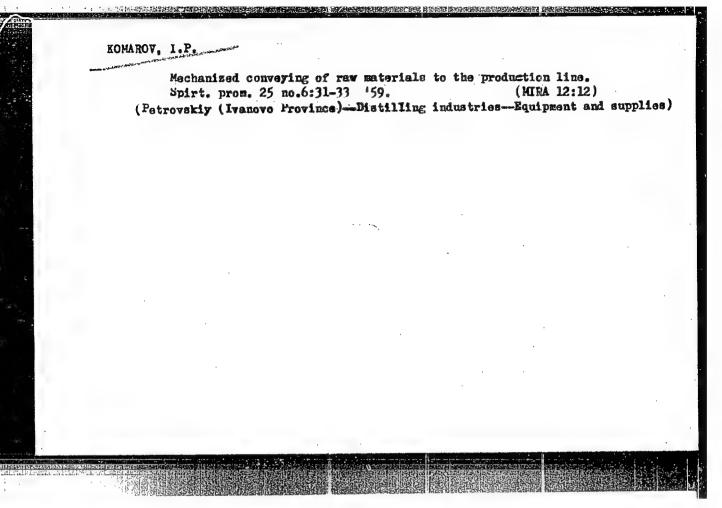


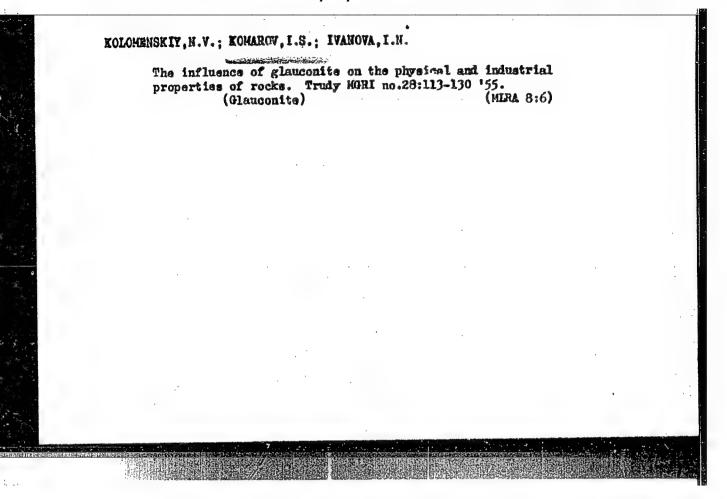
M. I. VORAMON. USSE/Engineering-Measuring instruments Card : 1/1 * Komarov, I. M., Cand. in Tech. Schences Authors : Effect of illumination of scales of universal measuring instruments on Title the speed and accuracy of calculations : Vest. Mash. 34/5, 87 - 88, May 1954 Periodical Experiments were made to determine the accuracy of reading sliding Abstract calipers and other instruments, which varying degrees of illumination. Graphs and tables were made of the later later ons, based on these measurements, which demonstrated, that the accuracy improved, when the illumination was increased over that retinarily used in workshops. Institution : Submitted

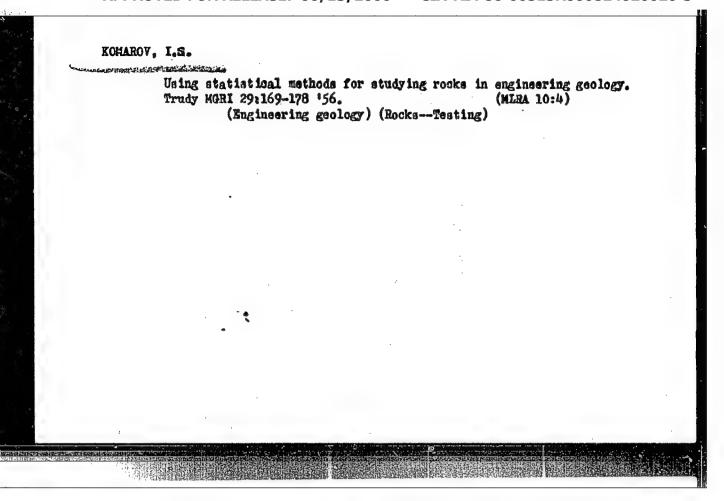
engineering-Hachine-shop work Card 1/1 Pub. 128-9/33 Authors : Komarov, I. M., Cand. Tech. Sci. Title 1 Heat phenomena during sharpening Periodical : Vest. mash. 34/8, 35-36, Aug 1954 Abstract : The results of a study which was conducted to determine the effect of sharpening on the heat factor in a part being machined, are presented and a method of establishing a balance for this heat factor, is described. Three Russian references: (1915-1951). Drawing. Institution : Submitted :

Wound temperature indicators for investigating the heat penetration range in turnet workpleces. Vest.mash. 36 no.11:46-47 N '56.

(Metal cutting) (Thermometry)







SOV-132-58-9-14/18

AUTHORS: Shirokov, A.S.; Kupalov Yaropolk, I.K., and Komarov, I.S.

TITLE: The XXII Congress of the German Geophysical Society (XXII

S"yezd Germanskogo geofizicheskogo obshchestva)

PERIODICAL: Razvedka i okhrana nedr, 1958, Nr 9, pp 52-54 (USSR)

ABSTRACT: The above mentioned conference took place in Leipzig in May

1958. The authors, who represented the USSR, give a report

on the activities of the conference.

ASSOCIATIONS: 1) Ministerstvo geologii i okhrany nedr SSSR (Ministry of

Geology and Conservation of Mineral Resources of the USSR)

2) Gosplan SSSR (Gosplan of the USSR)
3) VNII-geofizika (VNII - Geophysics).

1. Geophysics--Germany

Card 1/1

KOLOMENSKIY, N.V.; KOMAROV, I.S.; Prinimali uchastiye: IVANOVA,
I.N.; DROZODY, S.V.; ZAKHAROVA, N.A., red.

[Engineering geology] Inzhenernaia geologiia. IAroslavl',
Vysshaia shkola, 1964. 480 p. (MIRA 17:6)

KOLOMENSKIY, N.V., KOMAROV, I.S.

Lenin's ideas on the electrification of the country and problems of engineering geology related to hydrotechnical power contructions.

Izv.vys.ucheb.zav.; geol. i razv. 3 no.5:3-10 Ky '60. (MIRA 13:11)

1. Moskovskiy geologorasvedochnyy institut imeni S.Ordzhonikidse. (Lenin, Vladimir Il'ich, 1870-1924) (Electrification) (Engineering geology)

KOMAROV, I.S.; SADOV, A.V.; TAGUNOVA, L.N.

Role of geobotanical methods in the general complex of engineering geological surveys. Trudy MOIP 8:108-114 '64.

(MIRA 17:12)

KOLOMENSKIY, N.V.; DURROVKIN, V.L. [deceased]; KOMAROV, I.S.

Principles of state mapping from the viewpoint of engineering geology. Sov. geol. 7 no.3:76-80 Mr *64.

(M.RA 17:10)

1. Moskovskiy geologorazvedochnyy institut im. S. Ord:honikidze.

KOMAROV, I.S.

Developing rapid methods for research in engineering geology in the designing of large reservoirs. Izv. vys. ucheb. zav.; geol. i razv. 7 no.11:86-93 N '64. (MIRA 18:5)

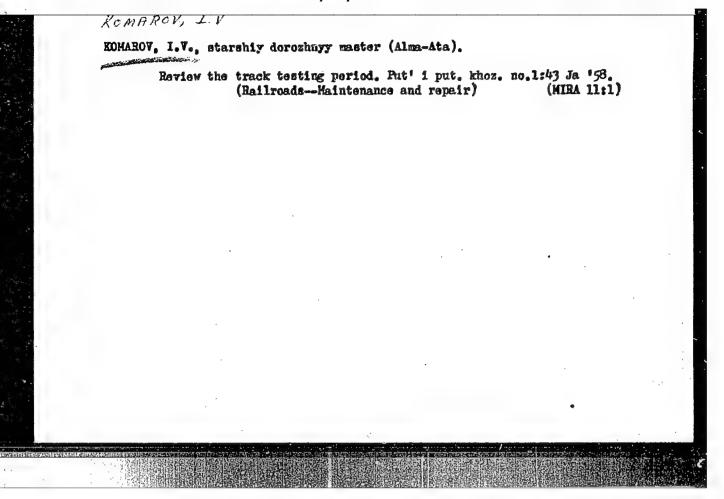
1. Moskovskiy geologorazvedcchnyy institut im. S. Ordzhonikidze.

ISMAGULOV, K.L. (Alma-Ata); POPOV, P.I. (Alma-Ata); KOMAROV, I.V. (Alma-Ata)

"Zero" runs. Put' i put. khoz. no.10:23-24 0 '57. (MERA 10:11)

1. Nachal'nik distantsii (for Ismagulov). 2. Zamestitel' nachal'nika distantsii (for Popov). 3. Starshiy doroxhnyy master (for Komarov).

(Railroads--Management)



KOMAROV, I.V.; KALITIN, N.T., insh.; KOGAN, N.G., insh.; LISKIND, M.Ya., inzh. (Sverdlovsk).

Value of warning signals. Put'i put. khoz. no.2:8-10 F '58. (MIRA 11:3)

1. Starshiy dorozhnyy master. Alma-Ata (for Komarov). (Railroads--Signaling)

L 22129-66 ENT(1) AT

ACC NR: APG004948

SOURCE CODE: UR/0056/66/050/001/0286/0294

AUTHOR: Demkov, Yu. N.; Komarov, I. V.

55

ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet)

TITLE: Ionization in slow collisions of two atoms

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966,

286-294

TOPIC TAGS: ionization potential, excitation energy, continuous spectrum, ground state, electron energy, line spectrum, wave function, excited state, particle ABSTRACT: The authors consider the reaction $A+B+A+B^++e$, in which the atoms are in the ground or in the excited states prior to the collision, but the excitation energy is smaller than the ionization potential. The simplest spherically symmetrical model is analyzed by way of an example. It is shown that the problem reduces to an analysis of the interaction of the state with an infinite number of parallel states and with a continuous spectrum, and the case is considered in which one energy level of the system crosses an infinite system of parallel levels adjacent to the ground state of the system AB. A general mathematical model is employed which yields the wave function, in the form of a contour integral, for the

Card 1/2

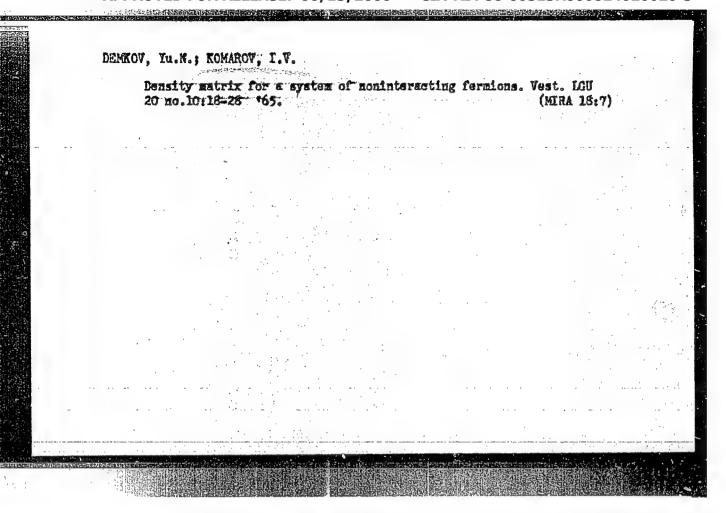
L 22129-66

ACC NR: AP6004948

nonstationary problem of the interaction between a system of parallel states and a state that intersects this system. Use is made of a mathematical formalism which is described elsewhere (DAN SSSR, in press), and whose earlier simpler applications were leseribed by one of the authors earlier (Demkov, ZhETF v. 49, 885, 1965 and others). The kinetic energy of the atoms is assumed to be much higher than the ionization potential, so that the motion of the nuclei can be chosen classically and the corresponding nonstationary problem can be solved. The method can also be used in a quantum description of the nuclear motion which is required when the nuclear energy is near the threshold, provided the system of parallel levels is horizontal or only slightly inclined. The probabilities of ionization and of the formation of highly excited states are derived, and the smooth transition from the discrete spectrum (excitation) to the continuous spectrum (ionization) is traced. The limits of applicability of the theory are considered. Orig. art. has: 3 figures and 22 formulas.

SUB CODE: 20/ SUBM DATE: 28Aug65/ ORIG REF: 009/ OTH REF: 002

Card 2/2 12K



ACC NR: AP/003213

SOURCE CODE: UR/0056/66/051/006/1712/1721

AUTHOR: Komarov, I. V.; Yanev, R. K. (Research associate)

ORG: [Komarov] - Leningrad State University (Leningradskiy gosudarstvenny universitet); [Yanev] - Institute of Nuclear Sciences "Boris Kidric," Belgrade, Yugoslavia (Institut yadernykh nauk "Boris Kidrich")

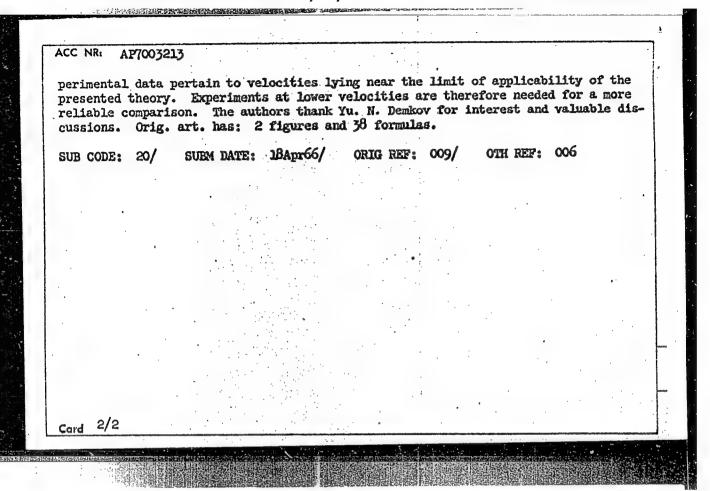
TITLE: Molecular-term splitting in two-electron exchange

SOURCE: Zh eksper i teor fiz, v. 51, no. 6, 1966, 1712-1721

TOPIC TAGS: term splitting, charge exchange, asymptotic solution, variational method

ABSTRACT: The purpose of the investigation was to obtain an asymptotic experession for the term splitting produced when two atoms exchange a pair of electrons. It is pointed out that an earlier calculation by a variational method (I. K. Fetisov and O. B. Firsov, ZhETF v. 37, 95, 1959) was in error because of a poorly chosen trial function. It is shown that to obtain correct results it is necessary to choose for the zeroth approximation either the wave function of the isolated atom, or at least a function that approaches it asymptotically. When this is done, an asymptotically exact formula can be obtained for the splitting at large internuclear distances. The influence of th spin of the electrons that do not participate in the exchange is taken into account. The cross sections for double charge exchange in inert gases are calculated and are compared with earlier calculations and with the experimental data. While a rough agreement is observed, it is pointed out that the available ex-

Card 1/2



BONDARENKO, T.M.; GORBOY, V.G. [Horboy, V.H.]; KOMAROY, I.Z.; VOYTOVICH, O.S. [Voitovych, O.S.]; KAMINSKIY, F.T. [Kamins'kyi, F.T.]; YAKOVLEYA, Ye.O. [IAkovlieva, IE.O.]; YAKOVLEY, S.B. [IAkovliev, S.B.]; YAVONENKO, O.Ya. [IAvonenko, O.IA.]; VISHCHUN, I.A., red.; ALEKSANDROV, M.O., tekhn.red.

[Our territory; brief guide-reference book] Nash krai; korotkyi putivnyk-dovidnyk. Kykolaiv, Kykolaivs'ks obl.upr.kul'tury, 1958. 94 p. (MIRA 13:2)

1. Nikolayev. Oblastnyi kraieznavchyi muzei. (Nikolayev Province--Guidebooks)

KOMAROV, K.

Important factor in solving the basic economic problem. Sots. trud no.3:17-23 Mr '58. (MIRA 13:3) (Technical education)

SHIRYAYEV, A.F., inzh., red.; KOMAROV, K.I., inzh., red.; DUGINA, N.A., tekhn. red.

[Improving the technology of founding] Sovershenstvovanie tekhnologii liteinogo proizvodstva. Moskva, Gos. nauchnotekhn.izd-vo mashinostroit.lit-ry, 1961. 138 p.

(MIRA 15:2)

1. Uralvagonzavod, Nizhniy Tagil.

(Founding)

KONAROV, L.

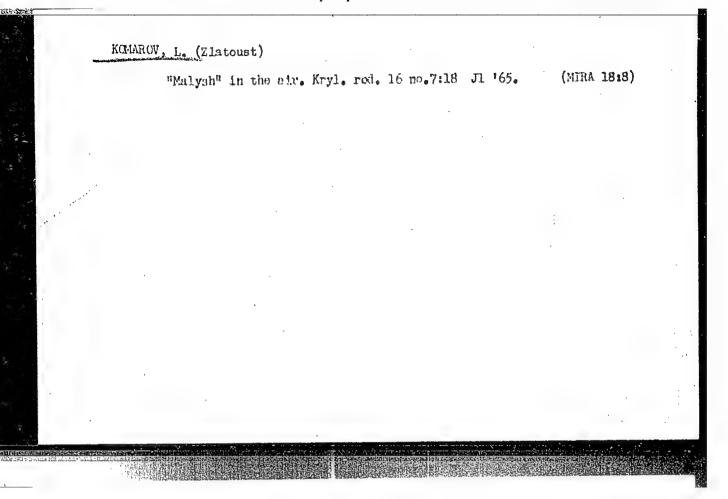
Result of teamwork. Kryl.rod. 7 no.1:16 Ja '56. (MLRA 9:5)

1. Zamestitel' predsedatelya Bryanskogo oblastnogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu. (Military education)

KOMAROV, L.; SHKIRKIN, G., starshly nauchnyy sotrudnik; KOIGANOV, N., starshly nauchnyy sotrudnik

Modernizing the ONK-B sprayer. Zashch. rast. ot vred. 1 bol. 10 no.10:27-29 65. (MTRA 18:12)

1. Zaveduyushchiy laboratoriyey Pushkinskey mashlucispytatel noy stanteli (for Kemarov). 2. Institut sadovodstva imeni I.V. Michurina (for Shkirkin, Kolganov).



KOMAROV, LEV ALEKSEYEVICH

Planironvaniye Podgotovki i Raspredeleniya Spetsialistov v SSSR. Moskva, Ekonomizdat, 1961,

104 p. Tables.

Bibliographical Footnotes.

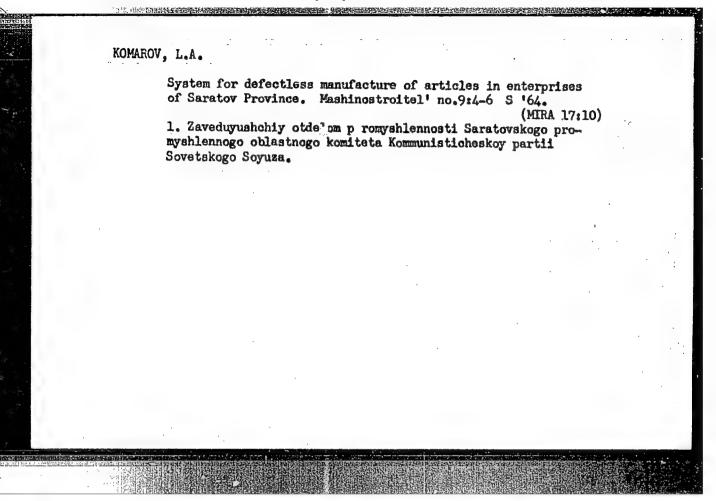
ANDREYEV, V.P.; BUTKOVSKIY, N.I.; KOMAROV, L.A.; KUDINOV, V.S.;

MASHANSKIY, G.S.; MERKIN, R.M.; MERKULOV, V.A.;

ZEMLYANIKIN, S.A.; SOLOMIN, V.V.; SHOLOKHOV, Ye.I.;

PEREPELITSKAYA, A.G., red.; AVDEYEVA, V.A., tekhn. red.

[Toward the new achievements; the Russian Federation in 1963, concise handbook] K novym rubezham; Rossiiskaia Federatsiia v 1963. godu. Kratkii spravochnik. Moskva, Sovetskaia Rossiia, 1963. 284 p. (MIRA 16:10) (Russia--Economic policy--Handbooks, manuals, etc.)



VOLODIN, Boris Grigor'yevich; GANIN, Mikhail Pavlovich; DINER, Isay Yakovlevich; KOMAROV, Lazar' Borisovich; SVESHNIKOV, Aram Arutyunovich, doktor tekhn. nauk, prof.; STAROBIN, Kalman Berkovich; GINZBURG, R.I., kand.tekhn.nauk, retsenzent; CHEREDNICHENKO, N.Ya., kand. tekhn.nauk; retsenzent; SHAYKEVICH, I.A., red.; KONTOROVICH, A.I., tekhn.red.

[Manual for engineers on the solving of problems in probability theory; collection of basic formulas, typical solutions, and problems for exercises] Rukovodstvo dlia inzhenerov po resheniiu zadach teorii verciatnostei; sbornik osnovnykh formul, tipovykh reshenii i zadach dlia uprazhnenii. [By] B.G.Volodin i dr. Leningrad, Sudpromgiz, 1962. 422 p. (MIRA 15:7) (Probabilities)

KOMAROV L. B.

PHASE I BOOK EXPLOITATION

SOV/6203

Volodin, Boris Grigor'yevich, Mikhail Pavlovich Ganin, Isay Yakovlevich Diner, Lazar' Borisovich Komarov, Aram Arutyunovich Sveshnikov, Doctor of Technical Sciences, Professor, and Kalman Berkovich Starobin

Rukovodstvo dlya inzhenerov po resheniyu zadach teorii veroyatnostey; sbornik osnovnykh formul, tipovykh resheniy i zadach dlya uprazheniy (Handbook for Engineers on the Solution of Problems in the Theory of Probability; Collection of Basic Formulas, Typical Solutions, and Practice Problems) Leningrad, Sudpromgiz, 1962. 422 p. Errata slip inserted. 14,300 copies printed.

Ed. (Title page): A. A. Sveshnikov; Reviewers: R. I. Ginzburg, Candidate of Technical Sciences, and N. Ya. Cherednichenko, Candidate of Technical Sciences; Ed.: I. A. Shaykevich; Tech. Ed.: A. I. Kontorovich.

PURPOSE: This handbook is intended for engineers, scientific workers, and students at schools of higher education interested in applying formulas of

Card 1/1

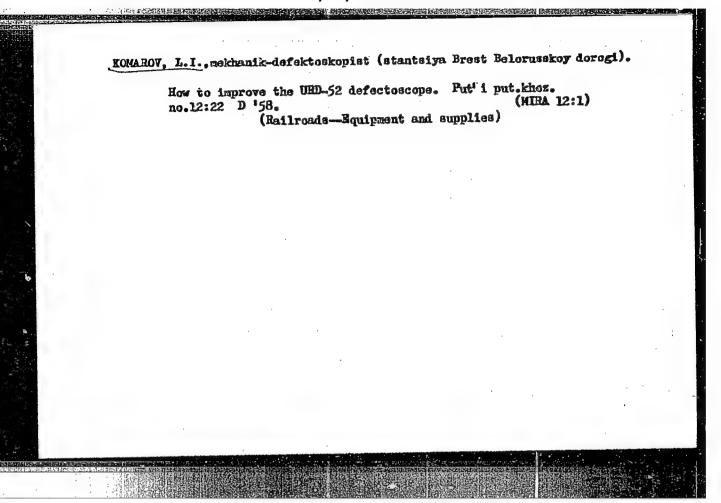
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VOLODIN, B.G.; GANIN, M.P.; DINER, I.Ya.; KOMAROV, L.B.; SVESHNIKOV, A.A., zasl. deyatel' nauki i tekhniki RSFSR, doktor tekhn. nauk, prof.; STAROBIN, K.B.; DONCHENKO, V.V., red.; BLAGOVESHCHENSKIY, Yu.N., red.

[Problems in probability theory, mathematical statistics, and theory of functions of random variables] Sbornik zadach po teorii veroiatnostei, matematicheskoi statistike i teorii sluchainykh funktsii. Moskva, Nauka, 1965. 632 p. (MIRA 18:10)

- 1. KOMAROV, L. I.
- 2. USSR (600)
- 4. Hedges
- 7. "edge for an experimental school garden. Est. v shkole no. 1 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.



KOMAROV, L.I., inzh.

Investigating a chopping apparatus with a pneumatic throwing device.

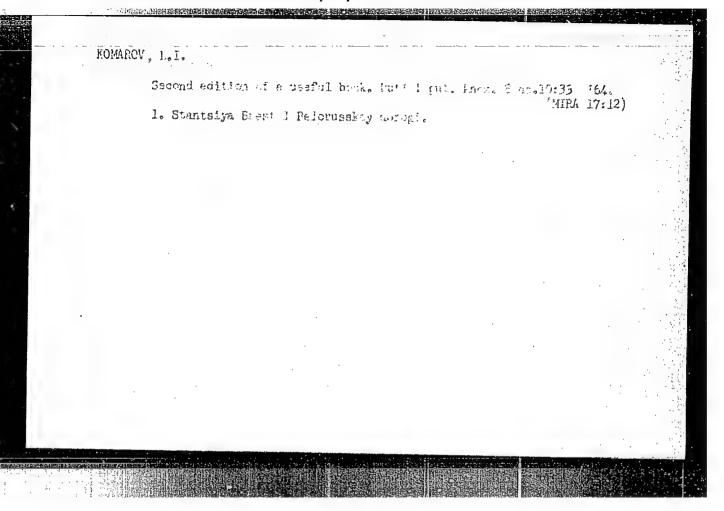
Mekh. i elek. sots. sel'khoz. 19 no.4:16-19 '61.

(MTRA 14:11)

1. Pushkinskaya mashinoispytatel'naya stantsiya.

(Combines(Agricultural machinery))

(Corn(Maize)—Harvesting)



ACCESSION NR: AP4040373

S/0185/64/009/004/0349/0354

AUTHOR: Komarov, L. I.; Fisher, I. Z.

TITLE: Neutron and Optical Spectra as Sources of Information on the Motion of Molecules in Liquids Paper presented at the Shestoye Soveshchaniye po Fizike Zhidkogo Sostoyaniya Veshchestva, Sixth Conference on the Physics of the Liquid State of Matter, Kiev, 1963

SOURCE: Ukrayins'ky*y fizy*chny*y zhurnal, v. 9, no. 4, 1964, 349-354

TOPIC TAGS: liquid state, liquid state physics, liquid molecular motion, molecular radial density distribution, molecular correlation function, many-body problem, Van Hove time molecular distribution function, Rayleigh scattering, neutron scattering, fluctuation theory

TRANSLATION: The Van Hove time molecular distribution formalism is introduced and applied to the description of such kinetic properties of condensed phases as correlation and autocorrelation functions and fluctuations. The possibilities of obtaining information about these functions from experimental data are studied

Card 1/2

ACCESSION NR: AP4040373

in detail. It is shown that the Rayleigh scattering spectrum can be used to determine the asymptotic behavior of the Van Hove functions with respect to distance and time. Low energy neutron scattering by liquids is considered in detail with a view toward extracting information about nolecular distributions. The high frequency limit of sound propagation in liquids is considered, and the possibility of the existence of transverse waves in liquids is likewise treated. The phonon approach of solid state usage is modified to treat the neutron scattering problem in liquids. Though neutron scattering differential cross-sections and the angular distribution of Rayleigh scattering are not expected to be precisely conformal, they are expected to be closely related. Very low energy neutron scattering is recommended as a tool for studying the nature of molecular behavior which gives rise to the dispersion of elastic and kinetic coefficients in liquids at the high frequency limit. Orig. art. has 17 numbered equations.

ASSOCIATION: Belorusskiy Gosuniversitet, Minsk (Byelorussian State University)

SUBMITTED: 00

)

DATE ACQ: 13May64

ENCL: OO

SUB CODE: OP,GP

NO REF SOV: 006

OTHER: 001

Card 2/2

43380

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S/056/62/043/005/046/058 B125/B104

AUTHORS:

Komarov, L. I., Fisher, I. Z.

TITLE:

On the theory of the Rayleigh scattering of light in fluids

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 43, no. 5(11), 1962, 1927 - 1933

TEXT: A molecular theory of the intensity and spectrum of the Rayleigh scattering of light in liquids or dense gases is formulated without using the thermodynamical theory of fluctuations. This paper is a transcript of one by L. Van Hove (Phys. Rev., 95, 249, 1954) from the "language" of scattering of neutrons to the "language" of scattering of light. N is the number of molecules contained in the volume V and $R_i(0)$ (i = 1,2,...,N)

indicates the position of the particles at a certain initial moment, $R_1(t)$ is their position at a later moment. The spectral density

 $I'(\mathbf{R}, \omega) = \frac{\alpha^2 \omega^4 N}{2\pi c^2 R^3} I_0 \sin^3 \gamma \int_{(V)} d\mathbf{r} \int_{-\infty}^{\infty} dt \times \exp\left\{i\left(\mathbf{k}_0 - \frac{\omega \mathbf{R}}{cR}\right)\mathbf{r} - i\left(\omega_0 - \omega\right)t\right\} G(|\mathbf{r}|, I),$ (21)

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On the theory of the Rayleigh ...

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of the intensity of the scattered light is a Fourier transform of a space-time molecular Van Hove function $G(|\vec{r}|,t)$ of the scattering system. $\cos \vec{r} = |\vec{E}_0 \vec{R}|/R|\vec{E}_0|$; I_0 and \vec{E}_0 are the intensity and the electrical vector of the incident radiation. $G(|\vec{r}|,t)$ is (with an accuracy up to the coefficient N^{-1}) the density of the relative probability of finding a certain particle, at the instant t, at a distance \vec{r} from the initial position of any given particle in the system. After scattering through the argle of O^0 has been excluded, G has to be replaced by G_{-1} . The integrator the formula

 $I'(R,\omega) = \frac{2\pi^2\omega^4N}{c^4R^2} I_0 \sin^2\gamma \int_0^\infty r^2 dr \frac{\sin \pi r}{\pi r} \int_{-\infty}^\infty dt \left(G(r,t) - 1\right) e^{i\Omega t}. \tag{25}$

or, with $G(\vec{r},0) = \delta(\vec{r}) + g(|\vec{r}|)/v$, to the formula

 $I'(R,\omega) = \frac{\alpha^2 \omega^4 N}{c^4 R^2} I_0 \sin^2 \gamma \delta (\omega - \omega_0) \left\{ 1 + \frac{4\pi}{\sigma} \int_0^{\infty} (g(r) - 1) \frac{\sin \kappa r}{\kappa r} r^2 dr \right\}. \quad (27).$

In contrast to the static theory, the present dynamic theory yields a certain definite spectrum of the frequencies in scattering. The formulas

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(25) and (27) yield equal intensities of the scattered light (aside from corrections of the order of $(v/c)^2$). The polarizability of one molecule in the field of the neighboring molecules is therefore $\alpha = v^2(-\partial \epsilon/\partial v)_T/4\pi$, where ϵ is the dielectric constant. Up to now, the spectrum of scattered light cannot be calculated from formula (25).

ASSOCIATION: Belorusskiy gosudarstvennyy universitet (Belorussian State University)

SUBMITTED: June 19, 1962

Card 3/3

ACCESSION NR: APLICOOULL

5/0046/63/009/004/0427/0433

AUTHORS: Kacharskaya, L. V.; Komarov, L. I.; Fisher, I. Z.

TITLE: Hypersound and slow neutron scattering in liquids

SOURCE: Akusticheskiy zhurnal, v. 9, no. 4, 1963, 427-433

TOPIC TAGS: hypersound neutron wave diffraction, liquid hypersound neutron wave diffraction, high frequency hypersound, hypersound neutron scattering, slow neutron scattering, hypersound slow neutron scattering, hypersound neutron scattering spectrum, hypersonic radiation, neutron scattering, neutron, scattering, hypersound

ABSTRACT: The conditions leading to neutron wave diffraction on hypersounds in liquids are analyzed, and conditions for building an experimental apparatus specified. Slow neutron scattering is found to be the most suitable because of the requirements of very high frequencies for the determination of hypersounds in fluids. The expression for the neutron energy E and momentum p during and after the scattering is represented by

 $E-E_0=\pm u(\Omega)|p-p_0|,$

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ACCESSION NR: APLO where u(\O) can be scattering angles (the form	coloulated by assess	imentally deter	mining p or E. H	or small
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University)				

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resistion of the trace of the stress lensor to the variation of the density. The special can be obtained from the Fourier transform of the cormination of the pressure fluctuations in the system. The mean pressure in the adiabatically isolated system is expressed in terms of the of isotropic compression at high frequencies. The results obtained from transdynamic (low frequency) fluctuation theory leads to a different expression the differences between the high- and low-frequency expressions is to be for liquids with noticeable dispersion of the speed of sound, and suitally the same for low-viscosity liquids. If an grateful to I. Z. to a critical discussion of the results and for useful advice. Orig.

1 TION: Belorusskiy gosudarstvennyy universitet (Belorussian State

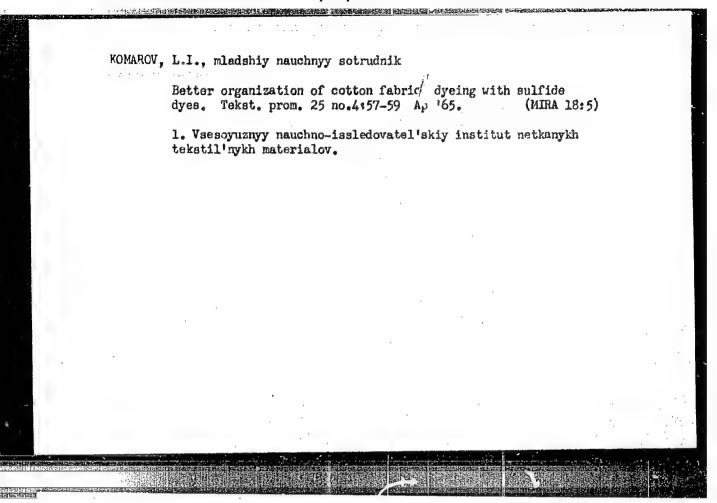
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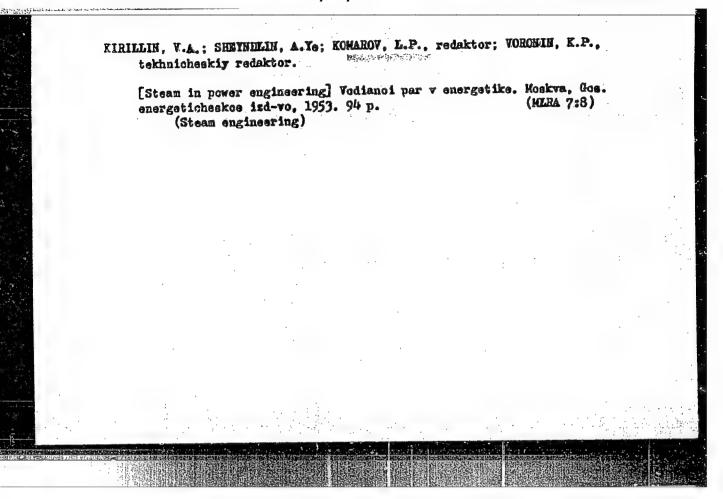
EMP(j)/ENT(m)/ETC(m)-6/T IJP(c) RM/WH ACC NR: AP6005951 SOURCE CODE: UR/0191/66/000/002/0033/0035 AUTHORS: Korshak, V. V.; Sergeyev, V. A.; Kozlev, L. V.; Komarova, L. I. ORG: none TITLE: Thermal and thermooxidative destruction of phenolformaldehyde cligomers of SOURCE: Plasticheskiye massy, no. 2, 1966, 33-35 TOPIC TAGS: phenolformaldehyde, oligomer, thermal decomposition, oxidation ABSTRACT: Chemical processes occurring in novolac phenolformaldehyde oligomers upon heating at 150--900C have been investigated by elementary analysis, titration for OH groups, and ESR and IR spectral analysis. Oligomers were prepared according to the method described by K. A. Andrianov and D. A. Kardashev (Prakticheskiye raboty po iskusstvernym smolam i plastmessam, ONTI, 1936, str. 198), washed repeatedly with distilled water, and dried at 1500/1--2 mm for 15 hours. The product, containing 2% of free phenol, was subjected to thermal and thermooxidative treatment for 3--4 hours. It was cetablished that the primary act in thermooxidative destruction was oxidation of methyl groups. Cross-linking during thermal Card 1/2 UDC: 678.632132121.011536.45

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Abramovich; KONFEDERATOV, Ivan Yakov
Abramovich; KONFEDERATOV
Abramovich; KONFEDER

KOMAROV, L. PAKSHVER, V.B. [translater]; KLYACHKO, V.A. [translator]; SHKROB, M.S., professor, doktor tekhnicheskikh nauk, redaktor; KOMAROV, L.P., redaktor; FRIDKIN, A.M., tekhnicheskiy redaktor [Water preparation and water operating conditions in beilers of thermal electric power plants; a collection of articles. Translated from the English, German and French] Vodopodgotowka i vodnyi reshim kotlov na teplovýth elektrostantsiiakh; abornik statei. Perevod s angliiskogo, nemetskogo i frantsusskogo. Pod red. M.S. Shkroba. Moskva, Coz. energ. izd-vo. No.4. [Thermochemical and thermal preparation of feed water for steam boilers in thermal electric power plants in the United States], Termokhimicheskaia i termicheskaia obrabotka pitatel'noi vody parovykh kotlov na teplovykh elektrostantsiiakh SShA; 1957. 79 p. (HIRA 10:7) (Feed-Water purification)

KOMAROV, V.M.; POKROVSKIY, Yu.M., kandidat tekhnicheskikh nauk, retsensent;
KOMAROV, V.M.; POKROVSKIY, Yu.M., kandidat tekhnicheskikh nauk, retsensent;
KOMAROV, L.P., inzhemer, redaktor; STUPIN, A.K., redaktor izdatel'stwa;
VYROVA, A.Y., tekhnicheskiy redaktor

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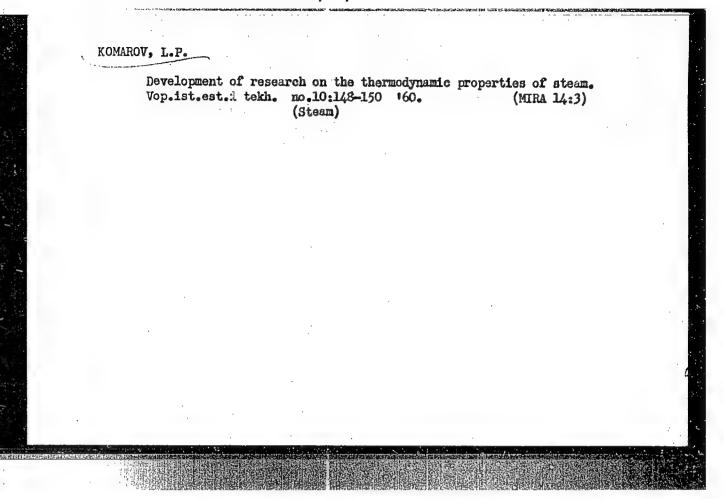
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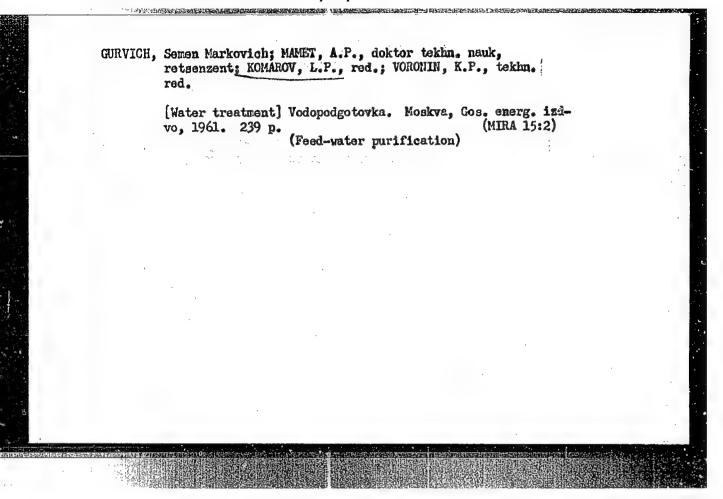
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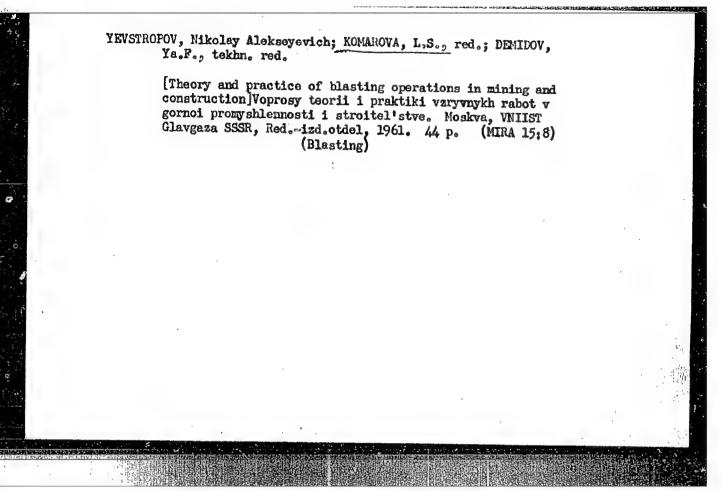
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rabbit's ear, frozen at - 1839, is one of the first
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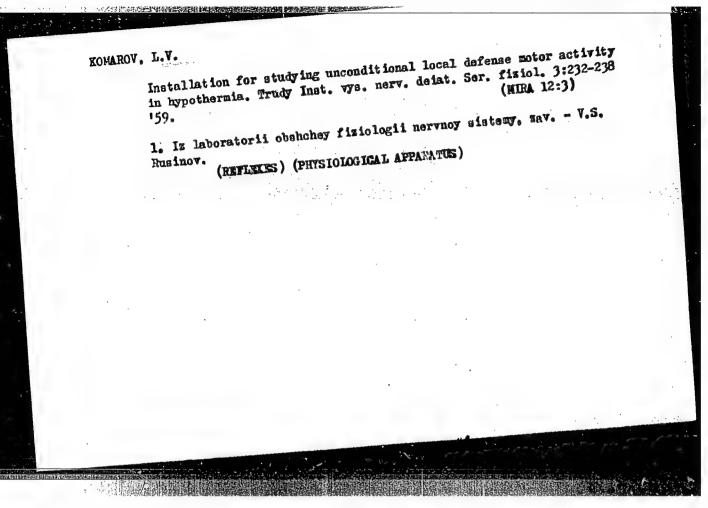
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Contains an account of 22 experiments with cats whose trunks were cooled with snow, or snow and water while the heads were kept in warm water or air. Respiration, heartbeat, rectal and oral temperatures were recorded as well as the temperatures at which respiration ceased.

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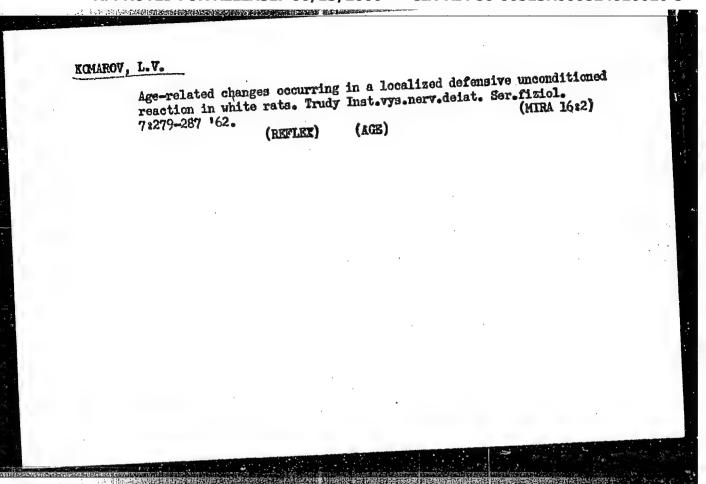
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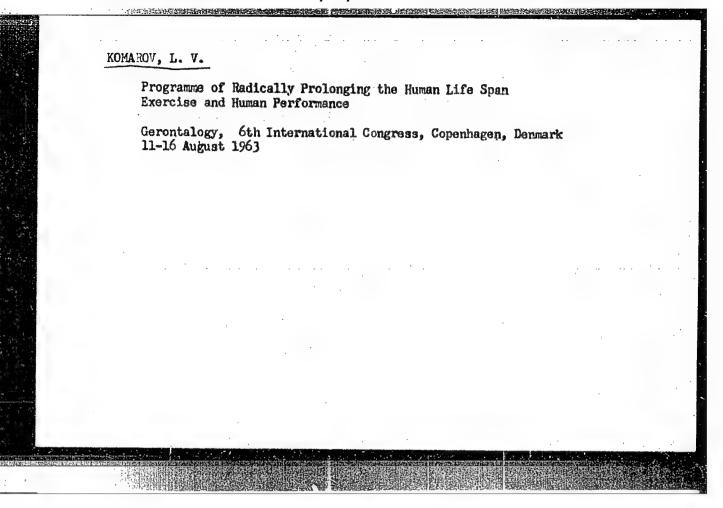


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18(0) AUTHOR: SOV/30-59-7-45/50 Komarov, L. Ye. TITLE: Scientific Basis of Production Methods in Foundries (Nauchnoye obosnovaniye metodov liteynogo proizvodstva) Vestnik Akademii nauk SSSR, 1959, Nr 7, pp 119-120 (USSR) PERIODICAL: The Institut mashinovedeniya Akademii nauk SSSR (Institute of ABSTRACT: Mechanical Engineering, Academy of Sciences, USSR) held a conference on the theory of casting in Moscow, April 22-24. It was devoted to problems of improving the quality of the products and increasing the accuracy of castings. V. I. Dikushin stated in his inaugural address that the country's industry each year had to transform more than 2,000,000 t of metal from castings into chips. Scientists, engineers, and technologists ought therefore to endeavor as quickly as possible to find ways and means of how to approximate the dimensions of raw castings to those of the finished parts. B. B. Gulyayev stated that the development in the field of accuracy in foundry production was carried out too slowly and not to the extent necessary. P. N. Aksenov reported on the main tasks of accuracy investigations of castings in dependen-Card 1/2 . ce on technological factors and recommended in particular

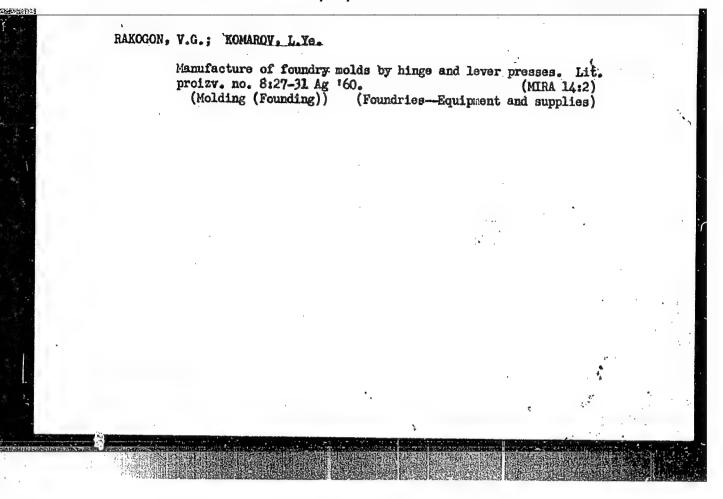
Scientific Basis of Production Methods in Foundries SOV/30-59-7-45/50

the methodology developed by V. M. Shestopalov. P. P. Berg examined the concept of nominal dimensions with reference to castings. Yu. Ya. Vorob'yev furnished data on theoretical and experimental investigations of the accuracy of castings. I. P. Yegorenkov reported on the development of a system of admixtures for the dimensions of the castings. An analysis of the effect of admixtures on the dimensions of cast parts was given by Ye. C. Kopanevich and S. A. Kazennov. G. I. Hikol'skiy, L. Ye. Komarov, S. S. Zhukovskiy, V. O. Yakovlev, S. N. Fomchenko, B. B. Gulyzyev reported on the cleanness and accuracy of cast parts. I. F. Kolchin and V. V. Ryzhenkov described experiments aiming at an improvement of the cleanness and accuracy of large castings in sand molds. H. P. Ivanov presented the results of investigations in regard of the influence of the chemical composition of cast iron on the accuracy of castings. The reports by N. N. Rubtsov and I. L. Zelikov, B. B. Gulyayev and M. F. Makel'skiy, I. I. Goryunov, Ye. N. Mikheyeva were devoted to questions of the accuracy of castings safeguarded by special methods. The conference outlined the further development program for the comprehensive study of questions of casting accuracy.

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KOMAROVA, L.Ye. Redesigning of a chemical feed-water purification system. Energetik 10 no.3:18 Mr ¹62. (MIRA 15:2)

1. Nachal'nik khimicheskogo tsekha Bogoslovskoy teploelektro-tsentrali.

(Feed-water purification)

